This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

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Claims 47-56, 58-61 and 63 (canceled)

- 64. (new) A method of delivering a heterologous gene to target cells comprising:
 - a. introducing nucleic acid sequences into one or more cells of a subject to convert the cells into replication defective-viral particle-producing cells (producer cells), the introduced sequences comprising:
 - i. a first nucleic acid sequence encoding a replication defective retroviral vector, the vector comprising a heterologous gene and a defective retroviral genome lacking functional *env* and *gag-pol* genes;
 - ii. a second nucleic acid sequence encoding a functional *env* gene; and
 - iii. a third nucleic acid sequence encoding functional gag-pol genes;wherein the first, second, and third nucleic acid sequences are present on separate constructs; and
 - b. infecting target cells with replication defective-viral particles produced from the producer cells *in situ*, thereby delivering the heterologous gene to the subject's target cells.
- 65. (new) The method of claim 64, wherein said sequences are introduced ex vivo.
- 66. (new) The method of claim 64, wherein said sequences are introduced in situ
- 67. (new) The method of claim 66, wherein said introducing is into one or more subject cells *in vivo*.
- 68. (new) The method of claim 64, wherein said producer cell and said target cell are the same type of cell.
- 69. (new) The method of claim 64, wherein said producer cell is a non-dividing cell.
- 70 (new) The method of claim 64, wherein said producer cell is an immune cell

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Listing of Claims:

Claims 47-56, 58-61 and 63 (canceled)

- 64. (new) A method of delivering a heterologous gene to target cells comprising:
 - a. introducing nucleic acid sequences into one or more cells of a subject to convert the cells into replication defective-viral particle-producing cells (producer cells), the introduced sequences comprising:
 - i. a first nucleic acid sequence encoding a replication defective retroviral vector, the vector comprising a heterologous gene and a defective retroviral genome lacking functional *env* and *gag-pol* genes;
 - ii. a second nucleic acid sequence encoding a functional *env* gene; and
 - iii. a third nucleic acid sequence encoding functional gag-pol genes;

wherein the first, second, and third nucleic acid sequences are present on separate constructs; and

- b. infecting target cells with replication defective-viral particles produced from the producer cells *in situ*, thereby delivering the heterologous gene to the subject's target cells.
- 65. (new) The method of claim 64, wherein said sequences are introduced ex vivo.
- 66. (new) The method of claim 64, wherein said sequences are introduced in situ
- 67. (new) The method of claim 66, wherein said introducing is into one or more subject cells *in vivo*.
- 68. (new) The method of claim 64, wherein said producer cell and said target cell are the same type of cell.
- 69. (new) The method of claim 64, wherein said producer cell is a non-dividing cell.
- 70. (new) The method of claim 64, wherein said producer cell is an immune cell.